Fig. 1

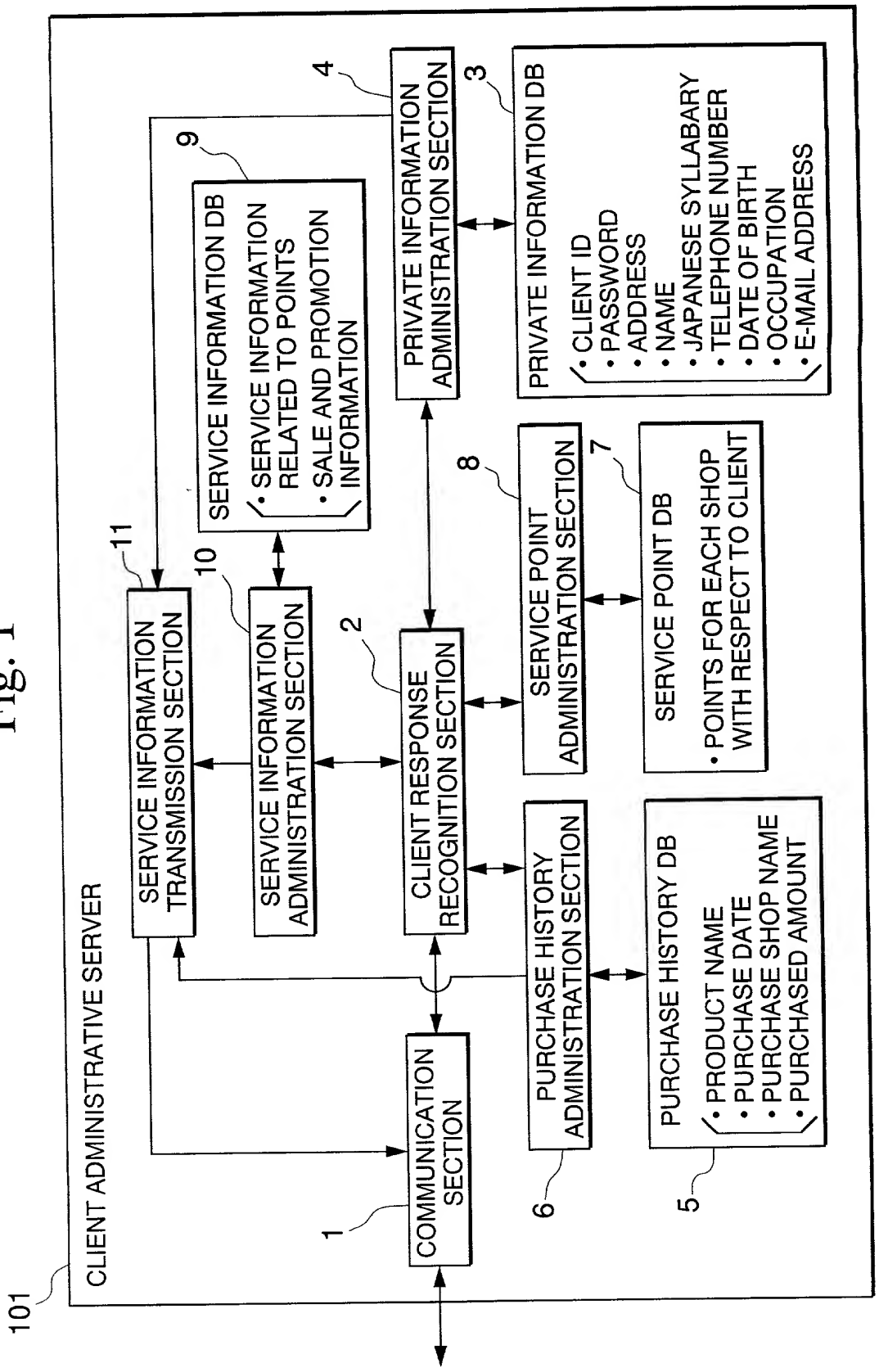
101
CLIENT ADMINISTRATIVE SERVER
COMMUNICATION SECTION
1
CLIENT RESPONSE RECOGNITION SECTION
2
PRIVATE INFORMATION ADMINISTRATION SECTION
4
PRIVATE INFORMATION DB
3
• CLIENT ID
• PASSWORD
• ADDRESS
• NAME
• JAPANESE SYLLABARY
• TELEPHONE NUMBER
• DATE OF BIRTH
• OCCUPATION
• E-MAIL ADDRESS
SERVICE INFORMATION TRANSMISSION SECTION
11
SERVICE INFORMATION ADMINISTRATION SECTION
10
SERVICE INFORMATION DB
9
• SERVICE INFORMATION RELATED TO POINTS
• SALE AND PROMOTION INFORMATION
SERVICE POINT ADMINISTRATION SECTION
8
SERVICE POINT DB
7
• POINTS FOR EACH SHOP WITH RESPECT TO CLIENT
PURCHASE HISTORY ADMINISTRATION SECTION
6
PURCHASE HISTORY DB
5
• PRODUCT NAME
• PURCHASE DATE
• PURCHASE SHOP NAME
• PURCHASED AMOUNT

Fig. 2

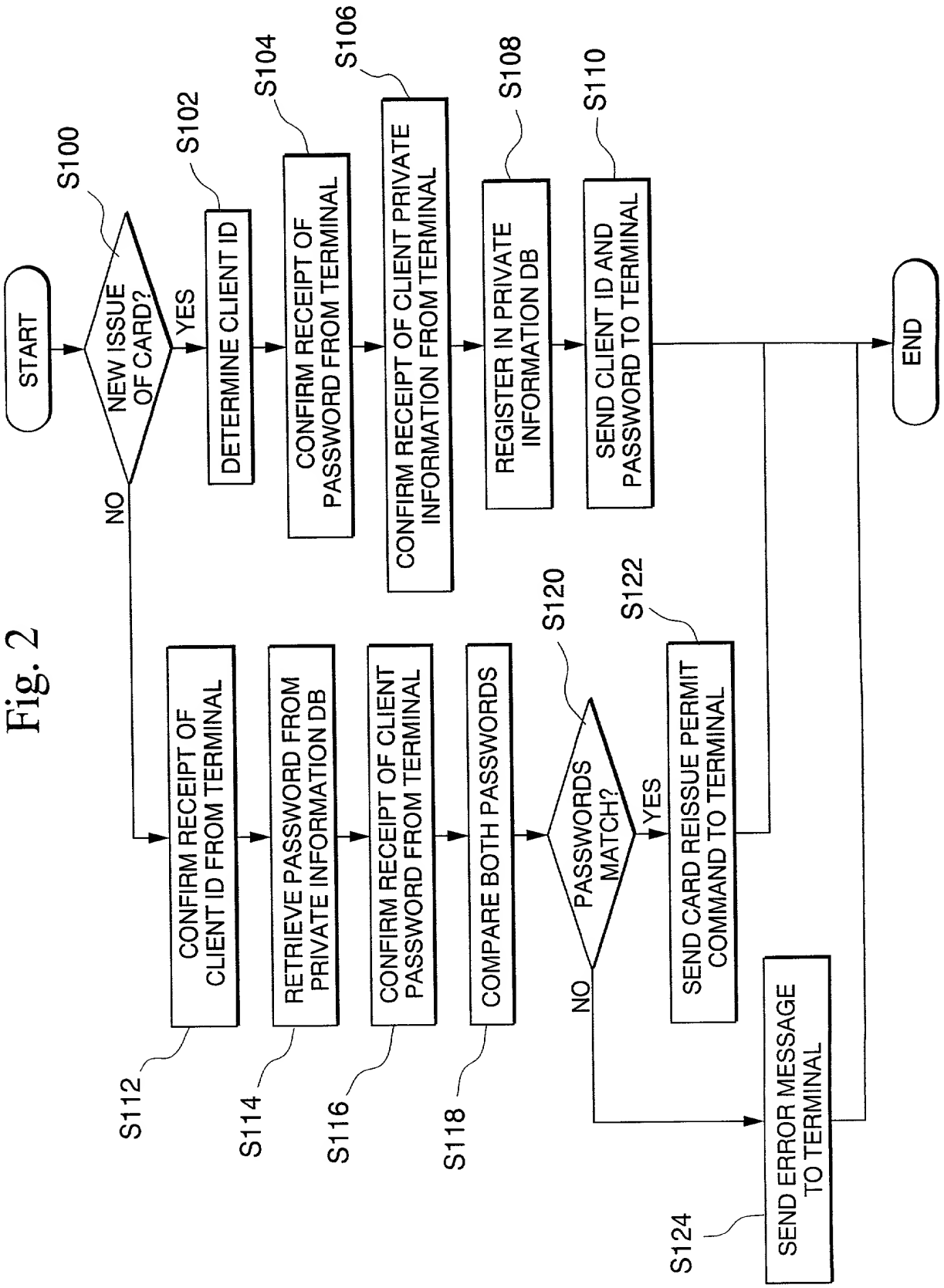
START
NEW ISSUE OF CARD?
S100
YES
NO
DETERMINE CLIENT ID
S102
CONFIRM RECEIPT OF PASSWORD FROM TERMINAL
S104
CONFIRM RECEIPT OF CLIENT PRIVATE INFORMATION FROM TERMINAL
S106
REGISTER IN PRIVATE INFORMATION DB
S108
SEND CLIENT ID AND PASSWORD TO TERMINAL
S110
END
CONFIRM RECEIPT OF CLIENT ID FROM TERMINAL
S112
RETRIEVE PASSWORD FROM PRIVATE INFORMATION DB
S114
CONFIRM RECEIPT OF CLIENT PASSWORD FROM TERMINAL
S116
COMPARE BOTH PASSWORDS
S118
PASSWORDS MATCH?
S120
YES
NO
SEND CARD REISSUE PERMIT COMMAND TO TERMINAL
S122
SEND ERROR MESSAGE TO TERMINAL
S124

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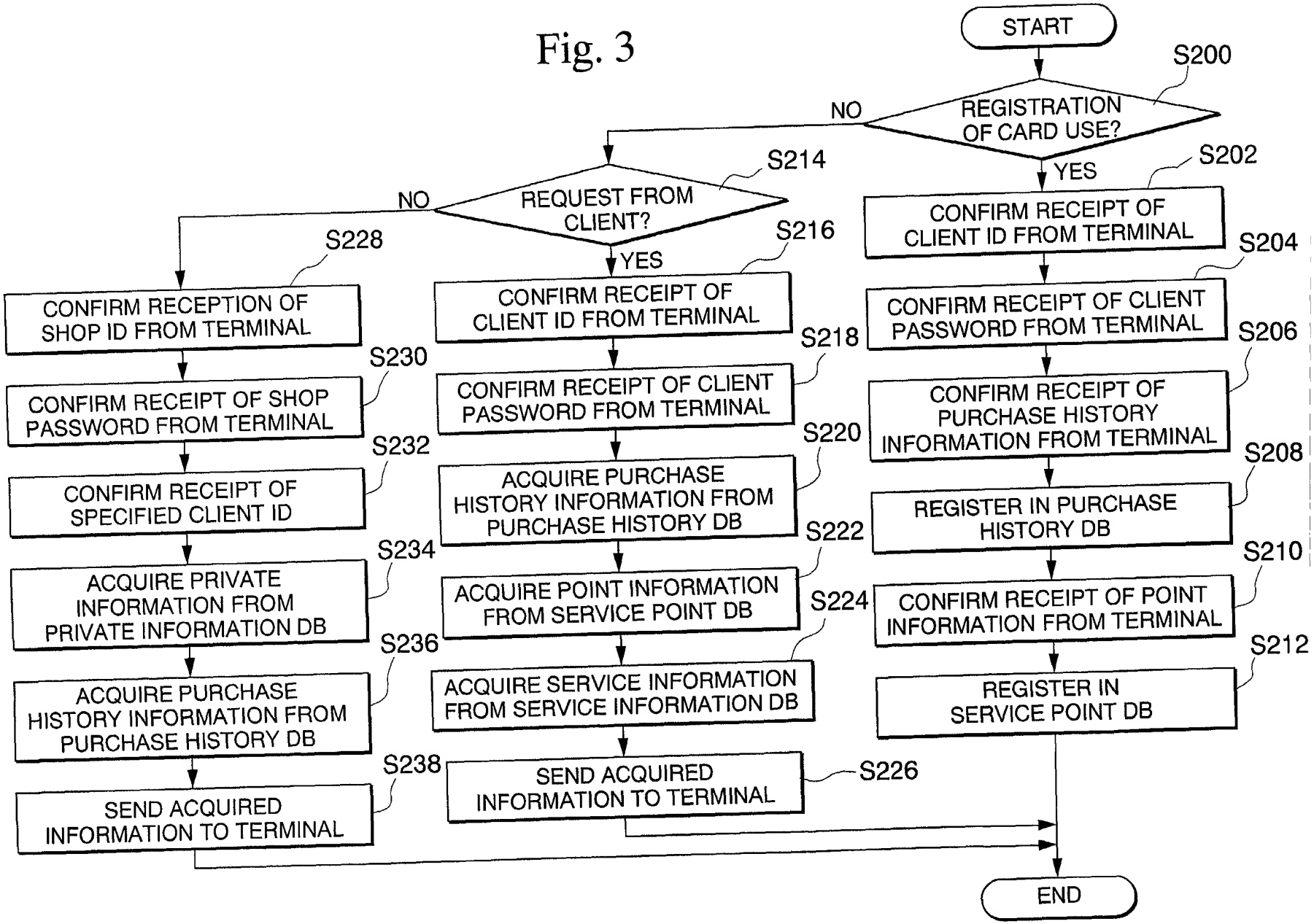
Fig. 3



SYSTEM USING A REWRITABLE CARD, METHOD THEREFOR, AND RECORDING MEDIUM RECORDED WITH PROGRAM THEREFOR
Inventor(s): Shusaku MITSUHASHI
DOCKET NO.: 088941/0192

Fig. 4

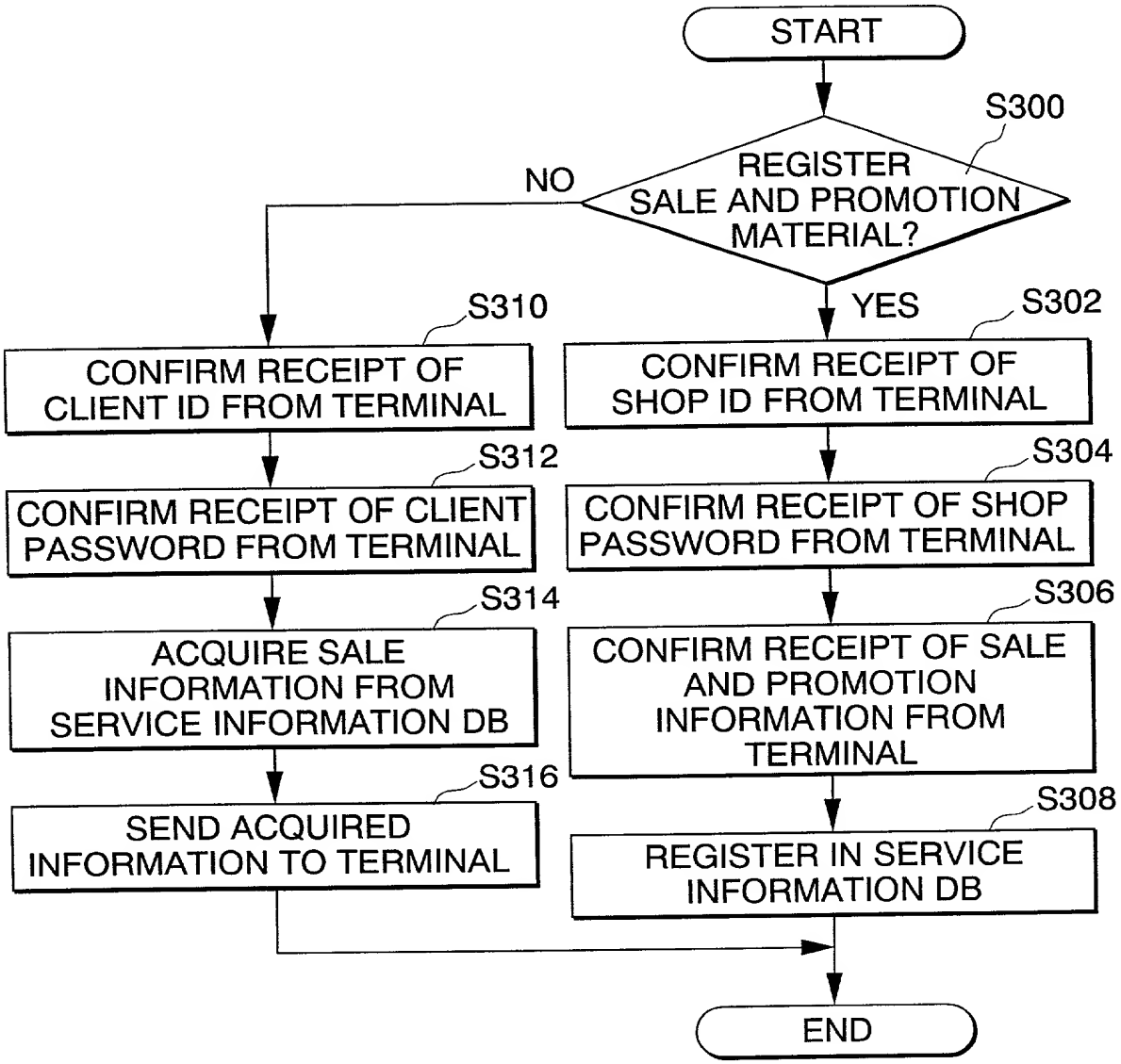

START
S300
REGISTER SALE AND PROMOTION MATERIAL?
NO
YES
S310
CONFIRM RECEIPT OF CLIENT ID FROM TERMINAL
S312
CONFIRM RECEIPT OF CLIENT PASSWORD FROM TERMINAL
S314
ACQUIRE SALE INFORMATION FROM SERVICE INFORMATION DB
S316
SEND ACQUIRED INFORMATION TO TERMINAL
S302
CONFIRM RECEIPT OF SHOP ID FROM TERMINAL
S304
CONFIRM RECEIPT OF SHOP PASSWORD FROM TERMINAL
S306
CONFIRM RECEIPT OF SALE AND PROMOTION INFORMATION FROM TERMINAL
S308
REGISTER IN SERVICE INFORMATION DB
END

Fig. 5

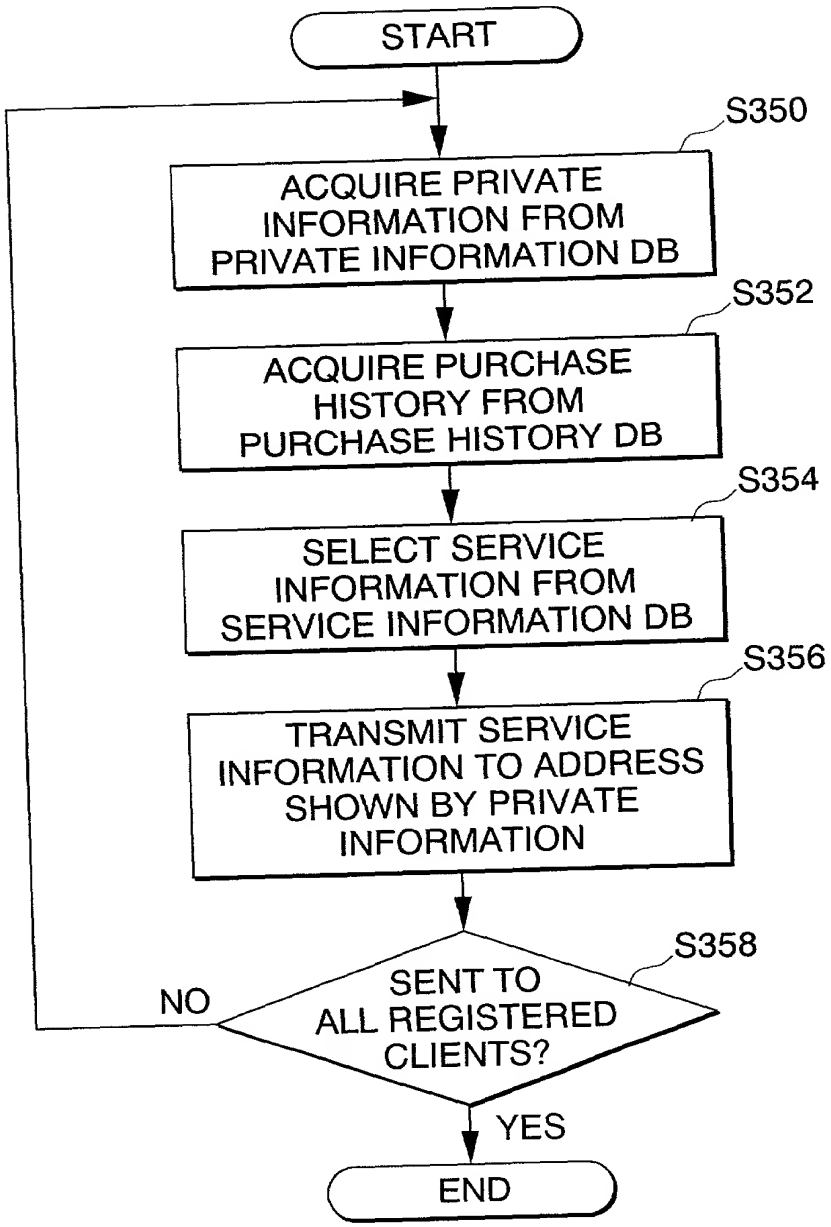

START
S350
ACQUIRE PRIVATE INFORMATION FROM PRIVATE INFORMATION DB
S352
ACQUIRE PURCHASE HISTORY FROM PURCHASE HISTORY DB
S354
SELECT SERVICE INFORMATION FROM SERVICE INFORMATION DB
S356
TRANSMIT SERVICE INFORMATION TO ADDRESS SHOWN BY PRIVATE INFORMATION
S358
SENT TO ALL REGISTERED CLIENTS?
NO
YES
END

Fig. 6

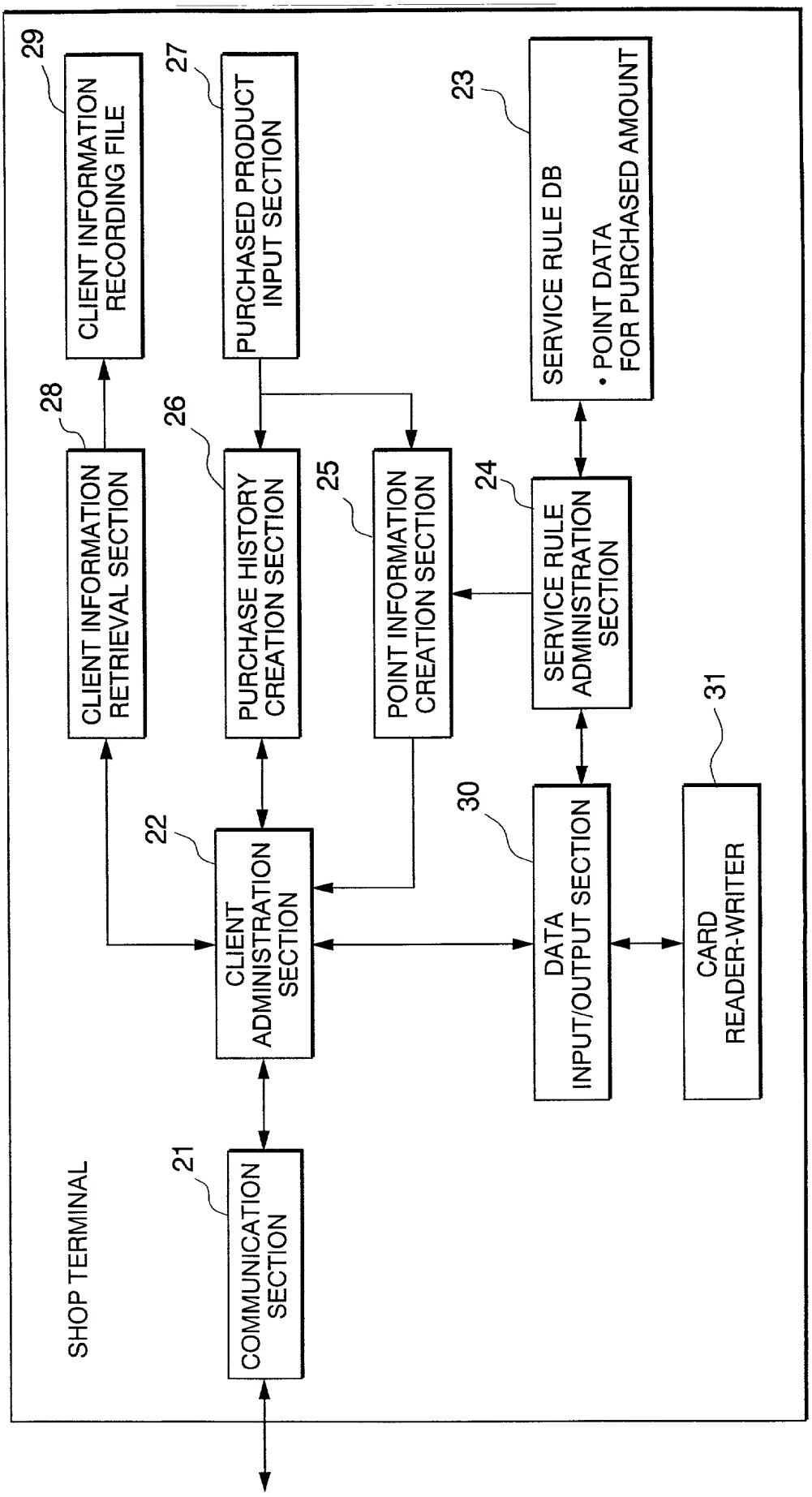

SHOP TERMINAL
21
COMMUNICATION SECTION
22
CLIENT ADMINISTRATION SECTION
30
DATA INPUT/OUTPUT SECTION
31
CARD READER-WRITER
24
SERVICE RULE ADMINISTRATION SECTION
25
POINT INFORMATION CREATION SECTION
26
PURCHASE HISTORY CREATION SECTION
28
CLIENT INFORMATION RETRIEVAL SECTION
29
CLIENT INFORMATION RECORDING FILE
27
PURCHASED PRODUCT INPUT SECTION
23
SERVICE RULE DB
• POINT DATA FOR PURCHASED AMOUNT

Fig. 7

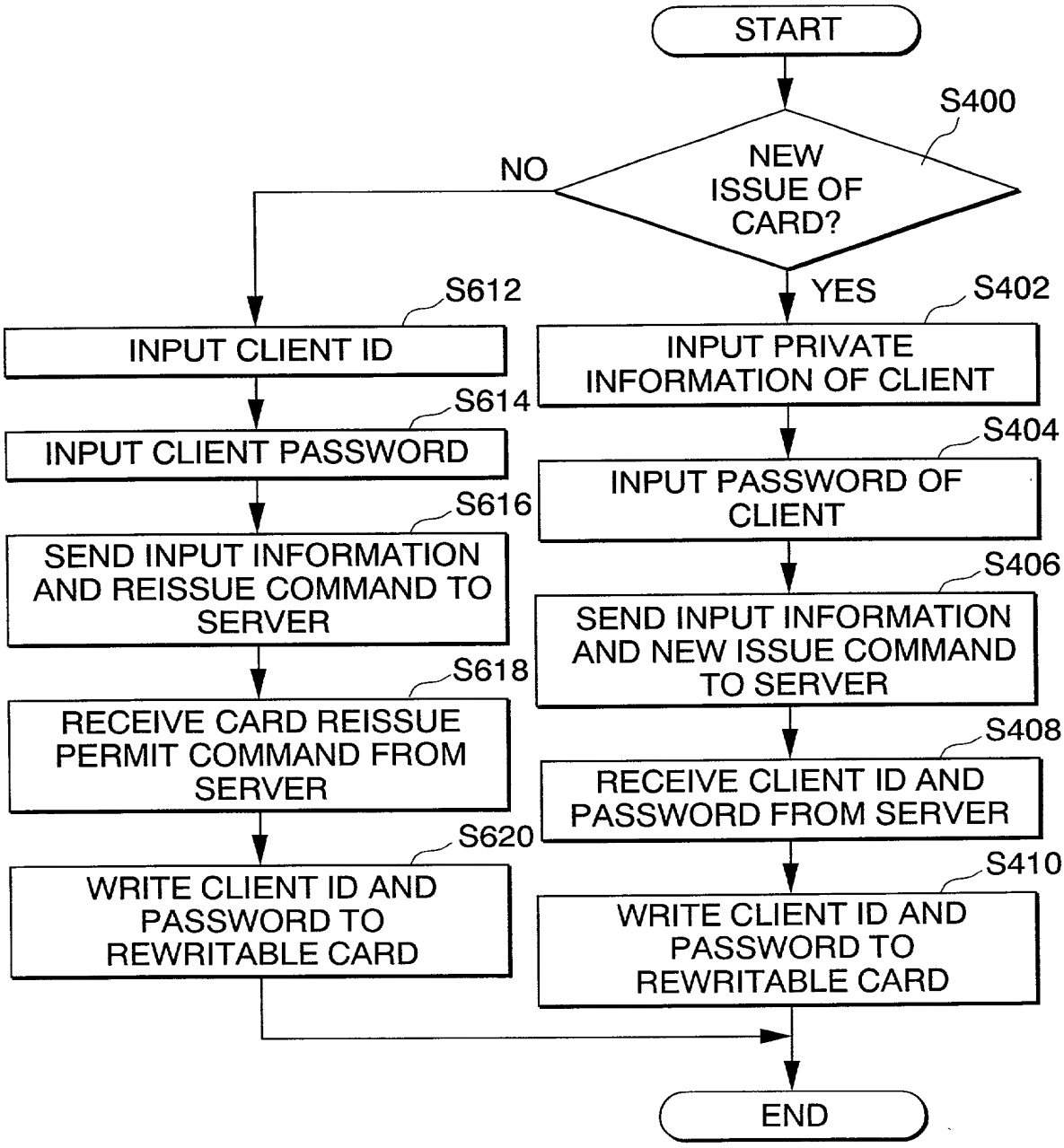

START
S400
NEW ISSUE OF CARD?
NO
YES
S612
INPUT CLIENT ID
S614
INPUT CLIENT PASSWORD
S616
SEND INPUT INFORMATION AND REISSUE COMMAND TO SERVER
S618
RECEIVE CARD REISSUE PERMIT COMMAND FROM SERVER
S620
WRITE CLIENT ID AND PASSWORD TO REWRITABLE CARD
S402
INPUT PRIVATE INFORMATION OF CLIENT
S404
INPUT PASSWORD OF CLIENT
S406
SEND INPUT INFORMATION AND NEW ISSUE COMMAND TO SERVER
S408
RECEIVE CLIENT ID AND PASSWORD FROM SERVER
S410
WRITE CLIENT ID AND PASSWORD TO REWRITABLE CARD
END

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Fig. 8

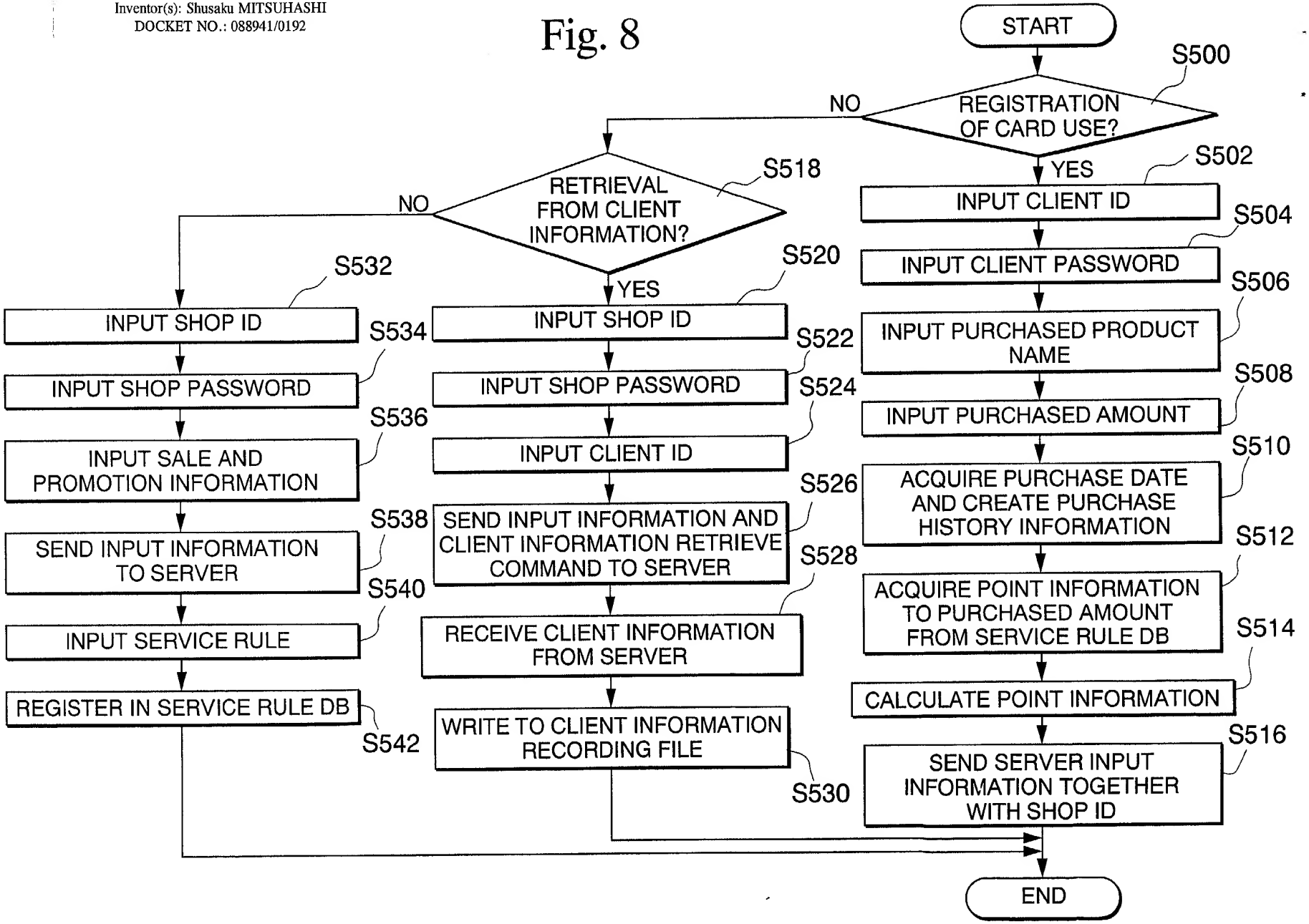
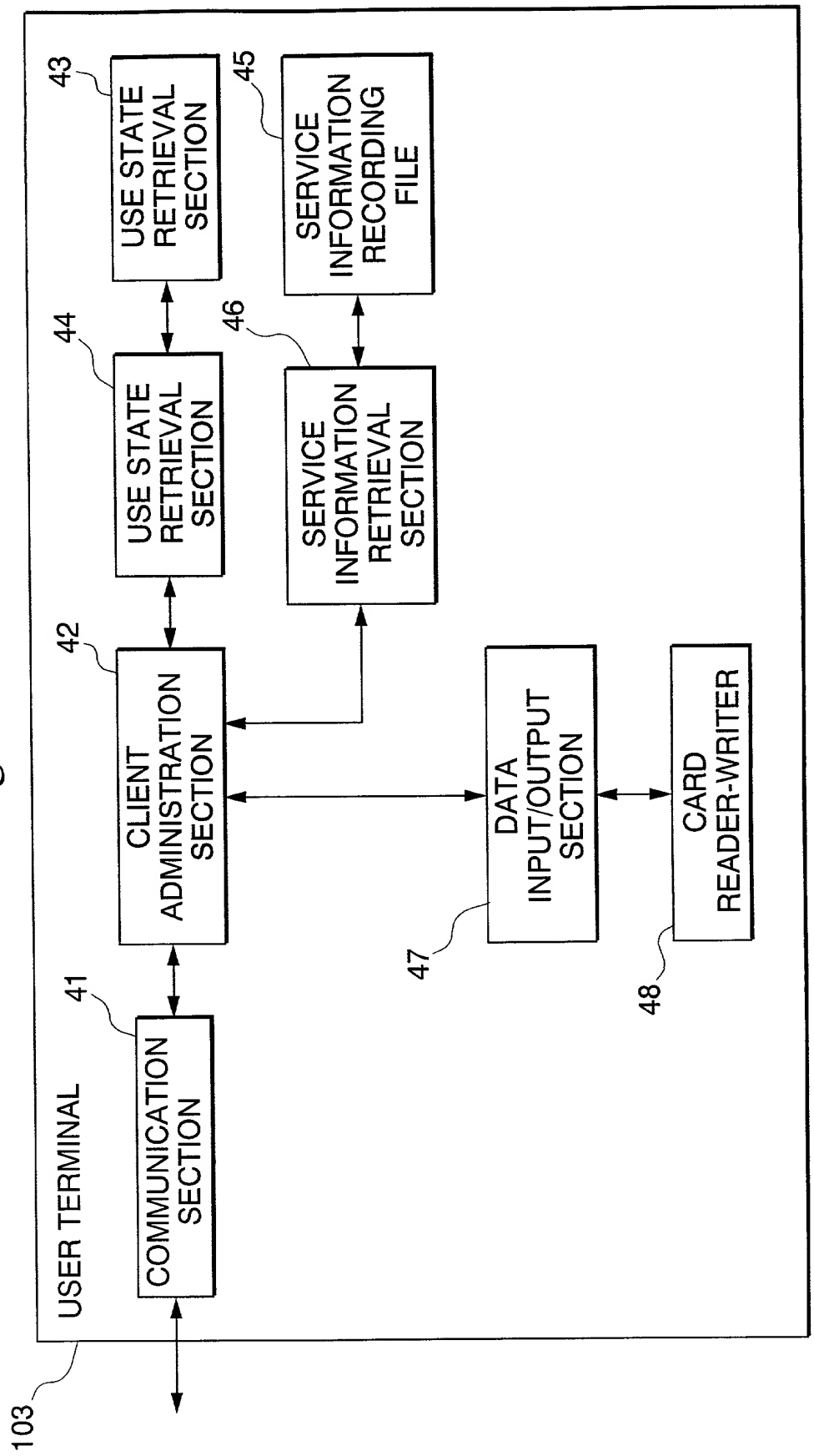
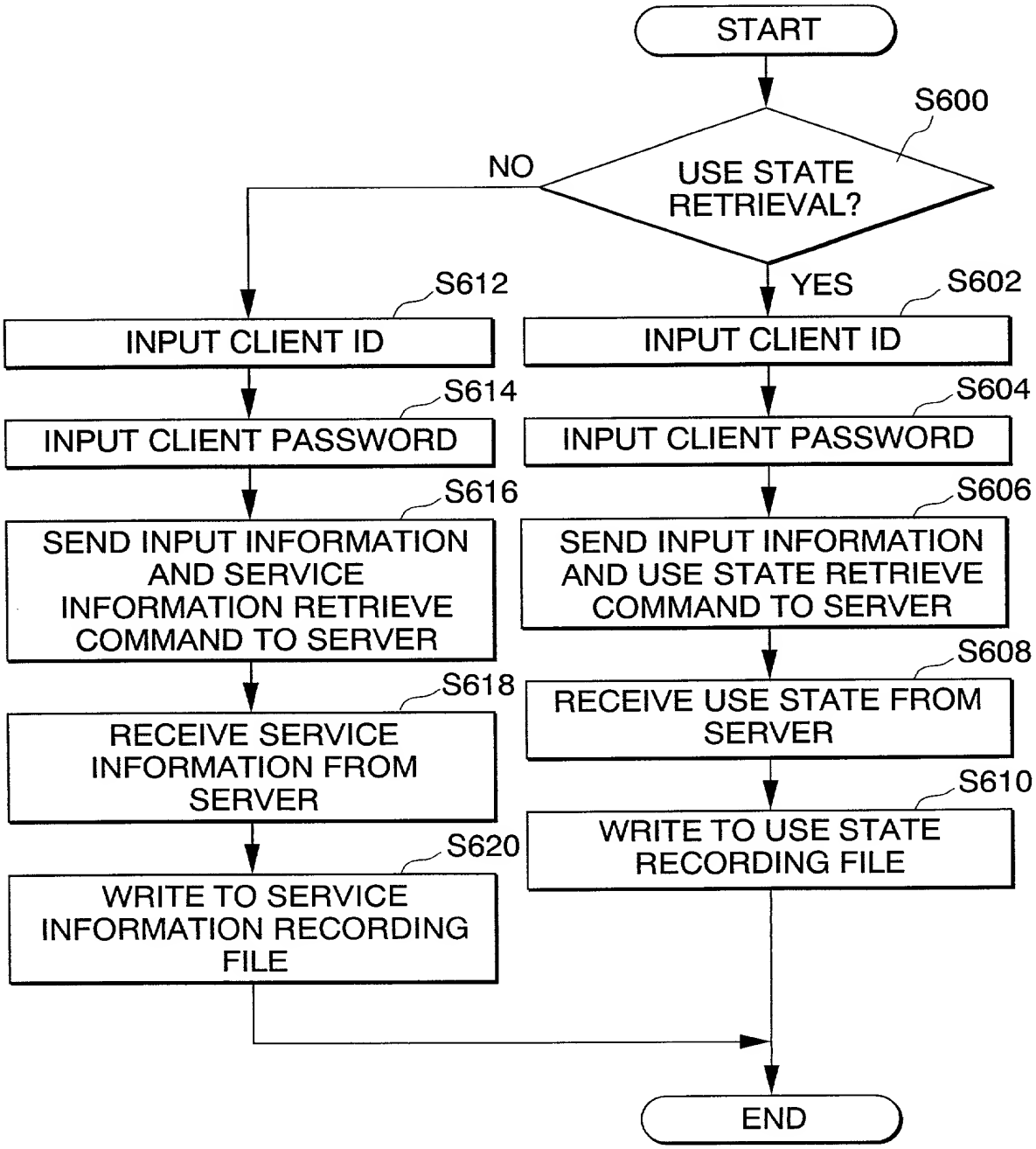


Fig. 9



Title: MEMBER CARD ADMINISTRATION SYSTEM USING A REWRITABLE CARD, METHOD THEREFOR, AND RECORDING MEDIUM RECORDED WITH PROGRAM THEREFOR
Inventor(s): Shusaku MITSUHASHI
DOCKET NO.: 088941/0192

Fig. 10


START
S600
USE STATE RETRIEVAL?
NO
YES
S612
INPUT CLIENT ID
S614
INPUT CLIENT PASSWORD
S616
SEND INPUT INFORMATION AND SERVICE INFORMATION RETRIEVE COMMAND TO SERVER
S618
RECEIVE SERVICE INFORMATION FROM SERVER
S620
WRITE TO SERVICE INFORMATION RECORDING FILE
S602
INPUT CLIENT ID
S604
INPUT CLIENT PASSWORD
S606
SEND INPUT INFORMATION AND USE STATE RETRIEVE COMMAND TO SERVER
S608
RECEIVE USE STATE FROM SERVER
S610
WRITE TO USE STATE RECORDING FILE
END

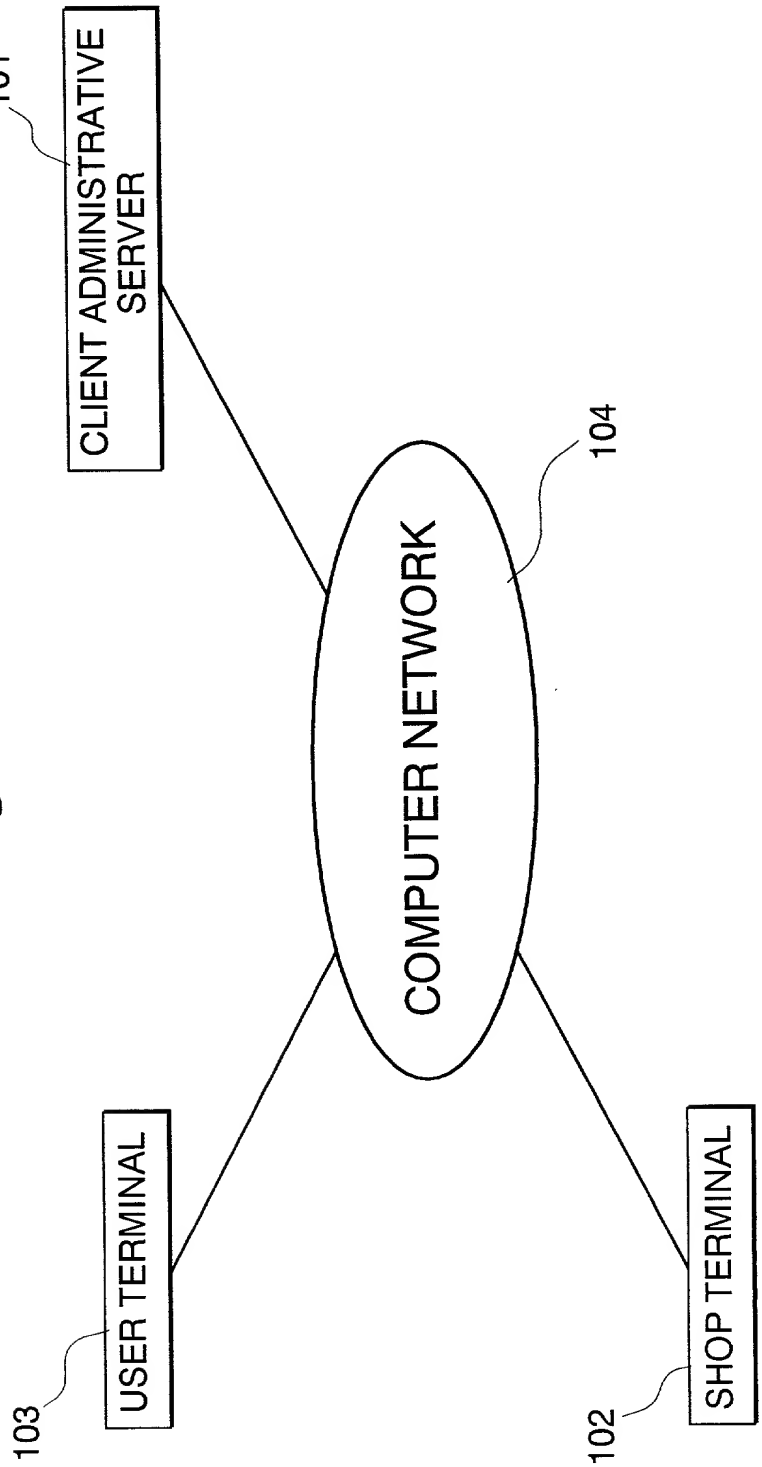

101
CLIENT ADMINISTRATIVE SERVER
104
COMPUTER NETWORK
103
USER TERMINAL
102
SHOP TERMINAL

Fig. 11